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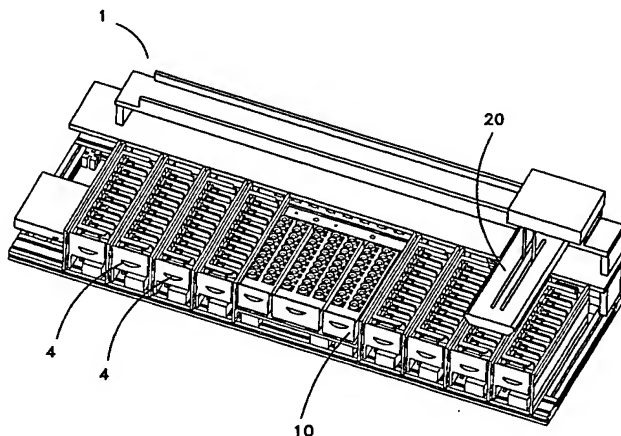
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(54) Title: **SYSTEMS AND METHODS OF SAMPLE PROCESSING AND TEMPERATURE CONTROL**



(57) Abstract: Systems and methods of sample processing and temperature control are disclosed. The invention may especially relate to temperature control, and may in some embodiments be methods of temperature control of an automated sample processing system and methods of automated sample processing. Specifically, the present invention provides temperature control in relation to sample processing systems and methods of processing samples, and in some embodiments provides temperature control in relation to sample carriers and processing materials such as reagents. Corresponding systems and devices are disclosed, including sample processing systems (1), sample carrier temperature regulation systems (60), reagent temperature regulation systems, sample processing control systems, and temperature regulation devices, among other embodiments. Scientific fields to which the present invention may have particular applicability include immunohistochemistry, in-situ hybridization, fluorescent in-situ hybridization, special staining, such as special staining of histological samples, microarray sample processing, and cytology, as well as potentially other chemical and biological applications.

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